CLAIMS

- 1. A molding composition which comprises a blend formed from at least the following components: (A) a thermoplastic polyamide or thermoplastic polyester polymer, said polymer being unreinforced, reinforced, or filled, (B) at least one organic halogen-containing flame retardant, (C) a zinc borate, a mixed oxide of zinc and boron, or zinc sulfide, or a mixture of any two or more of the foregoing; and (D) an olefin-based polymer.
- 2. A composition of claim 1 wherein (A) is nylon 6 or nylon 6,6 and wherein (D) is a propylene-based polymer.
- 3. A composition of claim 1 wherein (B) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.
- 4. A composition of claim 1 wherein (B) is a polybromostyrenic polymer containing at least 58% by weight of bromine.
- 5. A composition of claim 1 wherein (B) is a polybromostyrenic polymer containing at least 65% by weight of bromine.
- 6. A composition of claim 1 wherein (C) is a dodecaboron tetrazinc docosaoxide hydrate.
- 7. A composition of claim 1 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 8. A composition of claim 1 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.

- 9. A composition of claim 8 wherein the anti-dripping agent is a polyfluoroethylene polymer.
- 10. A composition of claim 8 wherein the anti-dripping agent is an ethylene/meth-acrylic acid copolymer.
- 11. A composition of claim 1 wherein the components used in forming said composition further comprise a CTI-increasing amount of an organic polymer of silicon absorbed on furned silica.
- 12. A composition of claim 1 wherein the components used in forming said composition further comprise a CTI-increasing amount of an organic polymer of silicon predispersed in a polyamide or polyester resin.
- 13. A composition of claim 11 wherein the organic polymer of silicon is a polysiloxane polymer.
- 14. A composition of claim 12 wherein the organic polymer of silicon is a polysiloxane polymer.
- 15. A composition of claim 13 wherein the polymer of silicon is a poly(dimethylsiloxane) polymer.
- 16. A composition of claim 14 wherein the polymer of silicon is a poly(dimethylsiloxane) polymer.
- 17. A composition of claim 2 wherein (B) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.

- 18. A composition of claim 2 wherein (B) is a polybromostyrenic polymer containing at least 58% by weight of bromine.
- 19. A composition of claim 2 wherein (B) is a polybromostyrenic polymer containing at least 65% by weight of bromine.
- 20. A composition of claim 2 wherein (C) is a dodecaboron tetrazinc docosaoxide hydrate.
- 21. A composition of claim 17 wherein (C) is a dodecaboron tetrazine docosaoxide hydrate.
- 22. A composition of claim 18 wherein (C) is a dodecaboron tetrazine docosaoxide hydrate.
 - 23. A composition of claim 19 wherein (C) is a dodecaboron tetrazinc docosaoxide hydrate.
 - 24. A composition of claim 2 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
 - 25. A composition of claim 17 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
 - 26. A composition of claim 18 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
 - 27. A composition of claim 19 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.

- 28. A composition of claim 20 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 29. A composition of claim 21 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 30. A composition of claim 22 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 31. A composition of claim 23 wherein (D) is a propylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 32. A composition of claim 2 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 33. A composition of claim 17 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 34. A composition of claim 18 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 35. A composition of claim 19 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 36. A composition of claim 24 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 37. A composition of claim 25 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.

- 38. A composition of claim 26 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 39. A composition of claim 27 wherein the components used in forming said composition further include at least one polymeric anti-dripping agent.
- 40. A composition of claim 33 wherein the anti-dripping agent is a polyfluoroethylene polymer.
- 41. A composition of claim 35 wherein the anti-dripping agent is a polyfluoroethylene polymer.
- 42. A composition of claim 33 wherein the anti-dripping agent is an ethylene/methacrylic acid copolymer.
- 43. A composition of claim 35 wherein the anti-dripping agent is an ethylene/methacrylic acid copolymer.
- 44. A composition of claim 2 wherein the components used in forming said composition further comprise a CTI-increasing amount of an organic polymer of silicon absorbed on furned silica.
- 45. A composition of claim 25 wherein the components used in forming said composition further comprise a CTI-increasing amount of an organic polymer of silicon absorbed on fumed silica.
- 46. A composition of claim 27 wherein the components used in forming said composition further comprise a CTI-increasing amount of an organic polymer of silicon absorbed on furned silica.

- 47. A composition of claim 44 wherein the organic polymer of silicon is a polysiloxane polymer.
- 48. A composition of claim 45 wherein the organic polymer of silicon is a polysiloxane polymer.
- 49. A composition of claim 46 wherein the organic polymer of silicon is a polysiloxane polymer.
- 50. A composition of claim 47 wherein the polysiloxane polymer is a poly(dimethylsiloxane) polymer.
- 51. A composition of claim 48 wherein the polysiloxane polymer is a poly(dimethylsiloxane) polymer.
- 52. A composition of claim 49 wherein the polysiloxane polymer is a poly(dimethylsiloxane) polymer.
 - 53. An article molded from a composition of any of claims 1, 2, 4, 6, 7, 8, or 27.
- 54. An article of claim 53 wherein the article contains glass fiber or a mineral filler, or both.
- 55. A method of increasing the flame retardancy and comparative tracking index of a thermoplastic polyamide or a thermoplastic polyester, which method comprises blending with the polyamide or polyester at least the components of any of claims 4, 7, or 35 to form a molding composition.

- 56. A method of claim 55 further comprising molding said molding composition while in molten condition.
- 57. A method of claim 56 further comprising performing said molding with glass fiber or mineral filler, or both, included in the molten composition.
- 58. A method of producing a polyamide article or a polyester article having increased flame retardancy and comparative tracking index, which method comprises molding a melt blend of any of claims 4 or 7.
- 59. A method of claim 58 further comprising performing said molding with glass fiber or mineral filler, or both, included in the melt blend.
- 60. A flame retardant additive composition which comprises (i) at least one organic halogen-containing flame retardant, (ii) a zinc borate, a mixed oxide of zinc and boron, or zinc sulfide or any combination of any two or more of these, and (iii) an olefin-based polymer, in proportions of 0.5 to 40 parts by weight of (i) and 0.3 to 12 parts by weight of (ii) per part by weight of (iii).
- 61. An additive composition of claim 60 further comprising (iv) up to 2 parts by weight of polymeric anti-dripping agent, (v) up to 3 parts by weight of an organic silicon-containing polymer used as the polymer absorbed on fumed silica, (vi) up to 5 parts by weight of organic silicon-containing polymer dispersed in a polyamide or polyester resin, and/or (vii) up to 10 parts by weight of processing, stabilizing, impact strength, and/or compatibilizing additives per part by weight of the olefin-based polymer present therein, at least one of (iv)-(vii) being present in said additive composition.
- 62. An additive composition of claim 60 wherein (iii) is a polypropylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.

- 63. An additive composition of claim 61 wherein (iii) is a polypropylene homopolymer having a melt flow index of not more than about 5 grams/10 minutes.
- 64. An additive composition of claim 60 wherein (i) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.
- 65. An additive composition of claim 61 wherein (i) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.
- 66. An additive composition of claim 62 wherein (i) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.
- 67. An additive composition of claim 63 wherein (i) is at least one polybromoaromatic compound containing at least 50% by weight of bromine.
- 68. An additive composition of any of claims 64 or 66 wherein said polybromoaromatic compound is a polybromostyrenic polymer containing at least 58% by weight of bromine.
- 69. An additive composition of claim 68 wherein said polybromostyrenic polymer contains at least 65% by weight of bromine, and wherein (ii) is a dodecaboron tetrazinc docosaoxide hydrate.
- 70. A composition of any of claims 1, 4, or 7 wherein (C) is zinc borate or a mixed oxide of boron and zinc.
- 71. A composition of any of claims 1, 4, or 7 wherein (C) is zinc borate monohydrate.
 - 72. A composition of any of claims 1, 4, or 7 wherein (C) is anhydrous zinc borate.